

REMARKS

The Office Action dated September 21, 2007, has been received and carefully noted. The above amendments to the claims, and the following remarks, are submitted as a full and complete response thereto.

Claims 1-22 have been amended to more particularly point out and distinctly claim the subject matter of the invention. Claims 1-22 are respectfully submitted for consideration.

Claims 1-22 were rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Publication No. 2004/0224702 to Chaskar et al. (Chaskar). This rejection is respectfully traversed.

Independent claim 1, upon which claims 2-9 are dependent, recites a method that includes sending a request for information associated with a location of a target user from a first location service entity to a second location service entity. The method also includes informing the second location service entity of a role performed by the second location service entity when processing the request. The method additionally includes processing the request at the second location service entity.

Independent claim 10, upon which claims 11-15 are dependent, recites an apparatus that includes a location service entity of a location information service arrangement comprising a plurality of location service entities configured to process requests for location information, the location information entity being configured to request for information associated with a location of a target user from a further location

service entity. The location service entity is also configured to inform the further location service entity of a role the further location service entity performs when processing the request.

Independent claim 16, upon which claims 17-20 are dependent, recites a system that includes a location service arrangement for providing information associated with the users of a communication system, comprising a plurality of location service entities configured to process requests for location information. A first location information entity is configured to request for information associated with a location of a target user from a second location service entity. The entity is configured to inform the second location service entity of a role in which the first location service expects a second location service to process a request. The second location information entity is configured to proceed with the processing of the request if the second location information entity can provide an expected role.

Independent claim 21, upon which claim 21 is dependent, recites an apparatus that includes sending means for sending a request for information associated with a location of a target user from a first location service entity to a second location service entity. The location service also includes informing means for informing the second location service entity of a role performed by the second location service entity when processing the request at the second location service entity.

Certain embodiments of the present invention provide preventing confusion at a location service entity of the role that it is to perform. See pages 3-5, of the present application.

As will be discussed below, Chaskar fails to disclose or suggest all of the elements of the claims, and, thus, fails to provide the critical and non-obvious advantages as discussed above.

Chaskar generally describes creating at a mobile station and sending an authorization to indicate consent of a user for an LCS client to receive location information regarding the user's mobile station. The LCS client receives a request for a location based service together with the authorization and an identifier of the mobile station, and then sends a query to a location server as to the location of the mobile station. If the authorization is verified at the location sewer, the location server directs a position determining entity (PDE) to determine the location of the mobile terminal with granularity specified in parameters of the authorization. The position of the mobile station is then sent to the location server, which delivers it to the LCS client. In the event that the LCS client requests the location information in logical co-ordinates and the PDE does not provide the location information in logical co-ordinates, then the location server may communicate with a mapping processor to obtain the location information in logical co-ordinates.

It is respectfully submitted that Chaskar fails disclose or suggest, at least, “informing the second location service entity of a role performed by the second location service entity when processing the request,” as recited in claims 1, 10, 16, and 21.

There is no teaching or suggestion in Chaskar that an entity may be responsible for more than one possible role. Accordingly, there is no motivation to inform a location service entity of a role to be performed, or any suggestion that a location service entity should be informed of its role.

In particular, a capability of a PDE to determine location information with different levels of granularity does not suggest that the position determining entity is capable of performing more than one role. Rather, an ability to determine location information constitutes a single role.

Therefore, it is respectfully submitted that Chaskar does not disclose or suggest, at least, “informing the second location service entity of a role performed by the second location service entity when processing the request,” as recited in claims 1, 10, 16, and 21. As such, it is respectfully requested that the rejection of claims 1, 10, 16, and 21 be withdrawn.

As discussed above, the presently pending claims are advantageous over Chaskar because location serving entities of Chaskar may act in more than one role. However, the present claims prevents confusion at a location service entity of the role that it is to perform, as discussed above.

Claims 2-9, 11-15, 17-20, and 22 are dependent upon claims 1, 10, 16, and 21, respectively. Accordingly, claims 2-9, 11-15, 17-20, and 22 should be allowed for at least their dependence upon claims 1, 10, 16, and 21, and for the specific limitations recited therein.

Claims 1-22 were rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Publication No. 2004/0242238 to Wang et al. (Wang). This rejection is respectfully traversed.

Wang generally describes location information using a security procedure. A call flow process referred to by the examiner includes a mobile station acting as a location client sending a location service request to an LCS server. The LCS server then requests location information from a serving mobile positioning centre (SMPC) where the location information is cached. The LCS server receives the location information from the SMPC, performs authentication and authorization if necessary, and sends to the mobile station the location information. Notably, the LCS server determines itself whether or not authentication authorization need be performed it is not informed by a first location server entity that it must perform a role in authentication and authorization.

However, Wang fails to disclose or suggest, at least, “informing the second location service entity of a role performed by the second location service entity when processing the request,” as recited in claims 1, 10, 16, and 21.

Furthermore, there is no teaching or suggestion in Wang that confusion as to a role that a location service entity must perform may arise. There is therefore no motivation to

inform a location service entity of its role. The present claims are advantageous in that it prevents such confusion from arising.

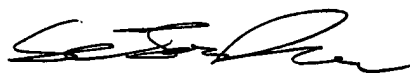
Claims 2-9, 11-15, 17-20, and 22 are dependent upon claims 1, 10, 16, and 21, respectively. Accordingly, claims 2-9, 11-15, 17-20, and 22 should be allowed for at least their dependence upon claims 1, 10, 16, and 21, and for the specific limitations recited therein.

For the reasons explained above, it is respectfully submitted that each of claims 1-22 recites subject matter that is neither disclosed nor suggested in the cited art. It is, therefore, respectfully requested that all of claims 1-22 be allowed, and that this application be passed to issue.

If for any reason the Examiner determines that the application is not now in condition for allowance, it is respectfully requested that the Examiner contact, by telephone, the applicants' undersigned attorney at the indicated telephone number to arrange for an interview to expedite the disposition of this application.

In the event this paper is not being timely filed, the applicants respectfully petition for an appropriate extension of time. Any fees for such an extension together with any additional fees may be charged to Counsel's Deposit Account 50-2222.

Respectfully submitted,



Sejoon Ahn
Registration No. 58,959

Customer No. 32294
SQUIRE, SANDERS & DEMPSEY LLP
14TH Floor
8000 Towers Crescent Drive
Tysons Corner, Virginia 22182-2700
Telephone: 703-720-7800
Fax: 703-720-7802

SA:dc